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==		Taperwork reduction set of 1999, no persons are required to respond to a c	Attorney Docket No. 1744.0450002
=======================================	: :: :::	UTILITY PATENT APPLICATION TRANSMITTAL	First Inventor or Application David F. SORRELLS Identifier
<u> </u>	====	(Only for new nonprovisional applications under 37 CFR § 1.53(b))	Title Spread Spectrum Applications of Universal Frequency Translation
	=		Express Mail Label No.
		APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	Assistant Commissioner for Patents  Box Patent Application Washington, DC 20231
1.	☒	* Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)	6. Microfiche Computer Program (Appendix)
2.	☒	Specification [Total Pages 146] (preferred arrangement set forth below)	<ol> <li>Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</li> </ol>
		Descriptive title of the Invention     Cross References to Related Applications     Background of the Invention	a. Computer Readable Copy
		Brief Summary of the Invention     Brief Description of the Drawings (if filed)     Detailed Description	b. Paper Copy (identical to computer copy)
		- Claim(s) - Abstract of the Disclosure	c.  Statement verifying identity of above copies
3.	$\boxtimes$	Drawings (35 U.S.C. 113) [Total Sheets <u>191</u> ]	ACCOMPANYING APPLICATION PARTS
4.		Oath or Declaration [Total Pages ]	8. Assignment Papers (cover sheet & document(s))
		a. Newly executed (original or copy)	9. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)
	ŀ	b. Copy from a prior application (37 CFR 1.63(d)) (for	10 Fig. Prodict Townships Day was a CC (11 41)
		continuation/divisional with Box 17 completed) [Note Box 5 below]	11.
		i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)	12. Preliminary Amendment
		named in the prior application, see 37 CFR §§	
5.		Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oa	14.  *Small Entity Statement(s) ath r  *Small Entity Statement(s) application, Status still proper and desired
	declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.		y 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
l			16.  Other: 37 C.F.R. § 1.136(a)(3) Authorization
			Other:  *NOTE FOR ITEMS   & 14; IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A  SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A  PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).
17	7. If	a CONTINUING APPLICATION, check appropriate box, and	supply the requisite information below and in a preliminary amendment:
l	, ⊏	☐ Continuation ☐ Divisional ☐ Continuation-i	in-Part (CIP) of prior application No:/
	Pr	rior application information: Examiner	Group/Art Unit:
Г		18. CORRESPON	NDENCE ADDRESS
┡		· · · · · · · · · · · · · · · · · · ·	
		Customer Number or Bar Code Label (Insert Customer No. or Attac	or \( \times \) Correspondence ach bar code label here) address below
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L		or Bar Code Label (Insert Customer No. or Attack  STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  Attomeys at Law	
A	AME DDRES	or Bar Code Label (Insert Customer No. or Attack  STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  Attomeys at Law	

NAME (Print/Type) 39,987 Registration No. (Attorney/Agent) 14/00 SIGNATURE Date

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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March 14, 2000

WRITER'S DIRECT NUMBER:
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PGARRETT@SKGF.COM

Assistant Commissioner for Patents Washington, D.C. 20231

**Box Patent Application** 

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To be assigned; Filed: March 14, 2000

For: Spread Spectrum Applications of Universal Frequency Translation

Inventors:

David F. Sorrells, Michael J. Bultman, Charles C. Clements,

Robert W. Cook, Joseph M. Hamilla, Richard C. Looke,

Charley D. Moses, Jr., Gregory S. Rawlins, Michael W. Rawlins

and Gregory S. Silver

Our Ref:

1744.0450002

Sir:

đ

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Utility Patent Application Transmittal Form (PTO/SB/05);
- 2. U.S. Utility Patent Application entitled:

Spread Spectrum Applications of Universal Frequency Translation

and naming as inventors:

David F. Sorrells, Michael J. Bultman, Charles C. Clements, Robert W. Cook, Joseph M. Hamilla, Richard C. Looke, Charley D. Moses, Jr., Gregory S. Rawlins, Michael W. Rawlins and Gregory S. Silver



Page 2

the application consisting of:

- a. A specification containing:
  - i. 141 pages of description prior to the claims;
  - ii. 4 pages of claims (16 claims);
  - iii. a one (1) page abstract;
- b. One-hundred and ninety-one (191) sheets of drawings: (Figures 1A-D, 2A, 2B, 3-14, 15A-F, 16-19, 20A, 20A-1, 20B-F, 21, 22A-F, 23A-F,24A-K, 25A-J, 26A-F, 27, 28A-J, 29, 30, 31A, 31B, 32, 33A, 33B, 34A-D, 35A-J, 36A, 36B, 37, 38A-C, 39A, 39B, 40, 41, 42A, 42B, 43A, 43B, 44, 45A-F, 46-59, 60A-Z, 61A, 61B, 62A, 62B, 63A-D, 64A-D, 65, 66A-C, 67-70, 71A, 71B, 72A, 72B, 73A-E, 74A, 74B, 75-77, 78A, 78B, 79-80, 81A-D, 82A-E, 83-84, 85A-C, 86, 87A, 87B, 88A-C, 89-95, 96A-C, 97-99, 100A-F, 101-104, 105A, 105B, 106A, 106B, and 107A-F);
- 3. PTO Fee Transmittal Form PTO/SB/17 (in duplicate);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3)(in duplicate);
- 5. Our check No. 26923 for \$690.00 to cover:
  - \$ 690.00 filing fee for patent application; and
- 6. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Assistant Commissioner for Patents March 14, 2000 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

0450002.pto

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE S

In re application of:

Sorrells et al.

Appl. No. To be assigned

Filed: March 14, 2000

For: Spread Spectrum Applications of

**Universal Frequency Translation** 

Art Unit: To be assigned

Examiner: To be assigned

Atty: Docket: 1744.0450002



## Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

terne, Kessler, Goldstein & Fox p.l.l.c.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

Date: 3/14/09

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## FEE TRANSMITTAL for FY 2000

1,4

TOTAL AMOUNT OF PAYMENT

Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.

(\$)690.00

Complet	Complete if Known		
Application Number	To be assigned		
Filing Date	March 14, 2000		
First Named Inventor	David F. Sorrells		
Examiner Name	To be assigned		
Group / Art Unit	To be assigned		
Attorney Docket Number	1744.0450002		

METHOD OF PAYMENT (check one) FEE CALCULATION (continued) ADDITIONAL FEES 1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account Number 19-0036 Large Entity Small Entity Deposit Account Name Fee Fee Sterne, Kessler, Goldstein & Fox P.L.L.C. Code (\$) Code (\$) Paid Fee Description 105 130 205 65 Surcharge - late filing fee or oath Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 127 50 227 25 Surcharge - late provisional filing fee or cover sheet 139 130 139 130 Non-English specification ☑Payment Enclosed: ☑ Check ☐ Money Order ☑ Other\* Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036. Check No. 26923 147 2,520 147 For filing a request for reexamination 112 920\* 920\* Requesting publication of SIR prior to Examiner action 112 113 1.8401 1.840\* Requesting publication of SIR after Examiner action 113 FEE CALCULATION 115 110 215 55 Extension for reply within first month 1. BASIC FILING FEE 116 380 216 Extension for reply within second month Entity Entity arge Small 117 870 217 435 Extension for reply within third month Fee Description Fee Paid 118 1.360 218 680 Extension for reply within fourth month Code (\$) Code (\$) 128 1,850 228 Extension for reply within fifth month 101 690 201 345 Utility filing fee 690.00 119 300 219 150 Notice of Appeal 106 310 206 155 Design filing fee 300 120 220 150 Filing a brief in support of an appeal 107 480 207 240 Plant filing fee 121 260 221 Request for oral hearing 108 208 690 334 1,510 Reissue filina fee 138 1.510 138 Petition to institute a public use proceeding 140 110 240 55 Petition to revive - unavoidable 114 150 214 75 Provisional filing fee 141 1.210 241 Petition to revive - unintentional SUBTOTAL (1) (\$) 690.00 142 1,210 242 605 Utility issue fee (or reissue) 143 430 243 215 Design issue fee 144 580 244 290 Plant issue fee EXTRA CLAIM FEES Fee from Extra Fee Paid below 122 130 122 Petitions to the Commissioner Total Claims 16 - 20\*\* = **0** X 18.00 0.00 Indep. Claims 3 \_- 3\*\* = <u>0</u> X <u>78.00</u> 0.00 123 50 123 Petitions related to provisional applications Multiple Dependent 126 240 126 240 Submission of Information Disclosure Stmt or number previously paid, if greater; For Reissues, see below Entity Small Entity .arge 581 40 581 40 Recording each patent assignment per property (times number of properties) Fee (\$) Fee Description Code Code (\$) Filing a submission after final rejection (37 CFR 1.129(a)) 146 760 246 380 103 18 203 9 Claims in excess of 20 102 78 202 39 Independent claims in excess of 3 149 760 249 For each additional invention to be examined 380 104 260 204 130 Multiple dependent claim (37 CFR 1.129(b)) 108 78 209 39 \*Reissue independent claims over Other fee (specify): original patent Other fee (specify): 110 18 210 \*\*Reissue claims in excess of 20 and over original patent 9 Reduced by Basic Filing Fee Paid SUBTOTAL (2) (\$) <u>0.00</u> SUBTOTAL (3) (\$) <u>0</u> SUBMITTED BY Complete (if applicable)

Typed or Printed Name Patrick Patrick Garrett Reg. Number 39,987 Signature Date **Deposit Acct. User ID** 19-0036

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